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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/872,251	05/31/2001	David P. Anderson	UNTD:015	6626
29444	7590 10/27/2004		EXAMINER .	
KELLY KORDZIK			SIDDIQI, MOHAMMAD A	
WINSTEAD SECHREST & MINICK P.C. 5400 RENAISSANCE TOWER		C.	ART UNIT	PAPER NUMBER
DALLAS, T	X 75270	•	2154	
	•		DATE MAIL ED: 10/27/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.



			VV
	Application No.	Applicant(s)	-
Office Action Commons	09/872,251	ANDERSON ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mohammad A Siddiqi	2154	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet	vith the correspondence address	-
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR of after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a recommendation of the period for reply is specified above, the maximum statutory perions are reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a eply within the statutory minimum of the d will apply and will expire SIX (6) MC ute, cause the application to become	ireply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 31	Mav 2001.		
<u> </u>	is action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under	rance except for formal ma	•	
Disposition of Claims			
4) ☐ Claim(s) 1-31 is/are pending in the application 4a) Of the above claim(s) is/are withdreds 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-31 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and are	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examir			
10)⊠ The drawing(s) filed on <u>31 May 2001</u> is/are: a	a)⊠ accepted or b)⊡ obje	cted to by the Examiner.	
Applicant may not request that any objection to th	= · ·	• •	
Replacement drawing sheet(s) including the corre		- · ·	
11) The oath or declaration is objected to by the E	examiner. Note the attache	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in fority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 01/10/02,06/12.03. 		(s)/Mail Date Informal Patent Application (PTO-152)	

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DETAILED ACTION

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1. Claims 1-31 are presented for examination.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 3. Claims 1 -13, 16-28, and 31 are rejected under 35 U.S.C. 102(e) as being anticipated by Getchius et al. (6,643,640) (hereinafter Getchius).
- 4. As per claim 1, Getchius discloses a plurality of distributed worker systems, the worker systems acting as data servers (808,810 fig 2, col 5, lines 19-23);

at least one coordinator system configured to communicate with the plurality of worker systems through a network (864, fig 4, col 6, lines 9-27); and

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a database administered by a first entity utilizing the coordinator system and the plurality of worker systems (860, fig 4, col 6, lines 9-27 and col 12, lines 3-5), wherein at least a portion of the plurality of worker systems (884, fig 23) are owned and operated by at least one second entity that is different from the first entity (858- 864 fig4, col 6, lines 9-27).

- 5. As per claim 8, Getchius discloses a distributed database system, comprising: at least one thousand distributed worker systems (808, 810,fig 2), the worker systems acting as data servers (808, fig 2, col 11, lines 31-38); at least one coordinator system configured to communicate with the worker systems through a network (854, fig 4, col 11, lines 13-15); and a database administered by utilizing the at least one coordinator system and the plurality of worker systems (884, fig 23, col 11, lines 30-40).
- 6. As per claim 11, Getchius discloses a distributed processing system providing database operations, comprising: a plurality of client systems running a client agent program (1904, fig 1), the client agent program comprising a database module (1802-1806, fig 3, col 5, lines 37-40); at least one server system configured to communicate with the plurality of client systems through a network to coordinate database workloads processed by the database modules (808, fig 2, col 6, lines 46-54); and a

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capabilities database coupled to the server system (808,814,fig 2, col 4, lines 54-64), the capabilities database comprising data concerning processing capabilities for the client systems (col 4, lines 50-64); wherein the server system utilizes the capabilities database to schedule database workloads for the database modules (col 6, lines 46-57).

- 7. As per claim 17, the claim is rejected for the same reasons as claim 8, above.
- 8. As per claim 24, the claim is rejected for same reasons as claim 8, above.
- 9. As per claim 26, the claim is rejected for the same reasons as claim 11, above.
- 10. As per claims 2 and 18, Getchius discloses the plurality of worker systems (col 12, lines 3-5) comprise over a thousand systems (808,810, fig 2).
- 11. As per claim 3, Getchius discloses the coordinator system maintains information about the current performance and availability of each of the

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worker systems (col 6, lines 43-50 and col 11, lines 31-38).

12. As per claims 4 and 19, Getchius discloses operators of each worker computer can control parameters of data server usage for the worker computer (configuration file, col 6, lines 60-62 and col 11, lines 31-38).

- 13. As per claims 5 and 20, Getchius discloses the controlling parameters comprise an amount of network bandwidth utilized, disk space usage, or hours of usage (col 7, lines 31-16).
- 14. As per claims 6 and 21, Getchius discloses data and indexing information for the database is organized in a multi-level hierarchy (col 33, lines 41-47 and 53-61).
- 15. As per claims 7 and 22, Getchius discloses distribution of data, index information, and user requests are dynamically modified in response to an actual load to optimize performance of the database system (weighting algorithm, col 33, lines 54-67).

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16. As per claims 9 and 25, Getchius discloses the database is administered by an entity and the worker systems are owned and operated by the same entity (808, fig 2, col 4, lines 54-64).

- 17. As per claims 10, 16, 23, and 31, Getchius discloses the network comprises the Internet (col 4, lines 39-43).
- 18. As per claims 12 and 27, Getchius discloses a system load database comprising load data about each client system (col 5, lines 66-67 and col 6, lines 1-7), the load data identifying current database workload processing utilization for the client system (col 5, lines 21-30 and col 6, lines 50-54).
- 19. As per claims 13 and 28, Getchius discloses the server system utilizes the current load data to balance database workloads among the client systems (col 6, lines 60-66).

Claim Rejections - 35 USC § 103

- 20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

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ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 21. Claims 14, 15, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Getchius et al. (6,643,640) (hereinafter Getchius) in view of Nisan et al (The POPCORN MARKET- an Online Market for Computational Resources, ACM 1998, by Noam Nisan and Ori Regev) (hereinafter Nisan).
- 22. As per claims 14 and 29, Getchius fails to discloses further comprising an incentives database coupled to the server system, the incentives database comprising incentive data for each of the client systems, the incentive data acting to encourage each client system to be utilized for objectives of the distributed processing system. However, Nisan discloses further comprising an incentives database coupled to the server system, the incentives database comprising incentive data for each of the client systems, the incentive data acting to encourage each client system to be utilized for objectives of the distributed processing system (page 150, section 3.2 The money). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Getchius with Nisan. The motivation would have been to motivate processors to provide their CPU cycles to other user's computation.

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23. As per claims 15 and 30, Getchius fails to discloses the incentive data comprises sweepstakes entries for database tasks accomplished by each client system. However, Nisan discloses the incentive data comprises sweepstakes entries for database tasks accomplished by each client system (page 150, section 3.2, The Money). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Getchius with Nisan. The motivation would have been to reward users for providing their CPU cycles to other user's computation.

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

6,604,122 teaches distributed processing.

6,574,628 teaches distributed task execution.

5,881,232 teaches distributed query processing.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammad A Siddiqi whose telephone number is (703) 305-0353. The examiner can normally be reached on Monday - Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on (703) 305-8498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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